

FIG. 1
(PRIOR ART)

N_{SAV} : Normal to Surface Adjacent to a Vortex
 N_{ME} : Normal to Mixing Element
 F : Direction of fluid flow
 \bullet : Centroid of mixing element

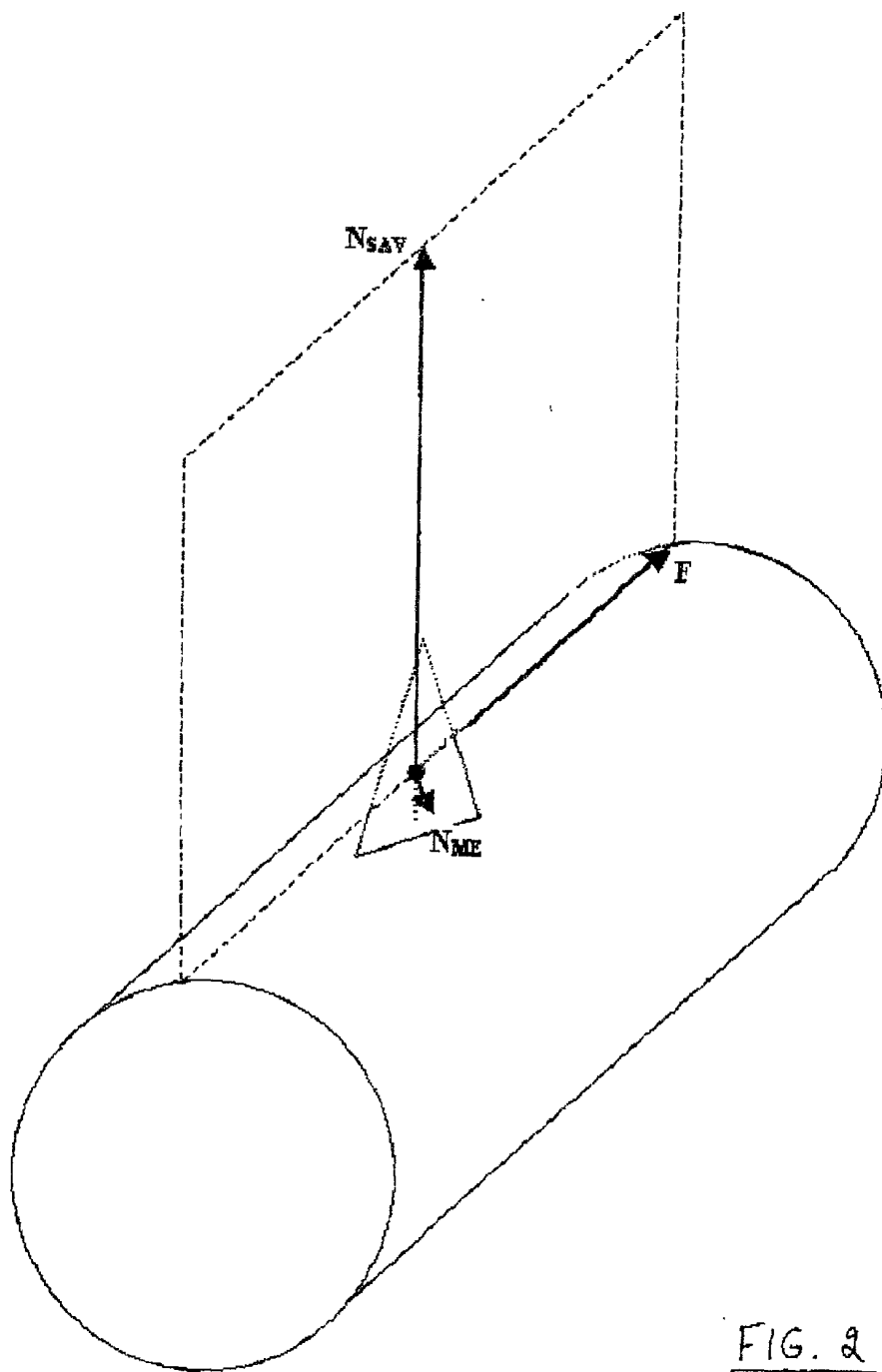
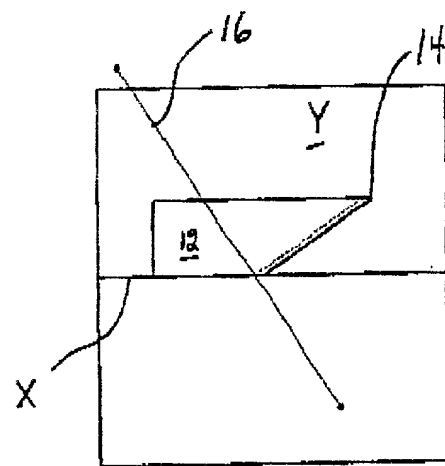
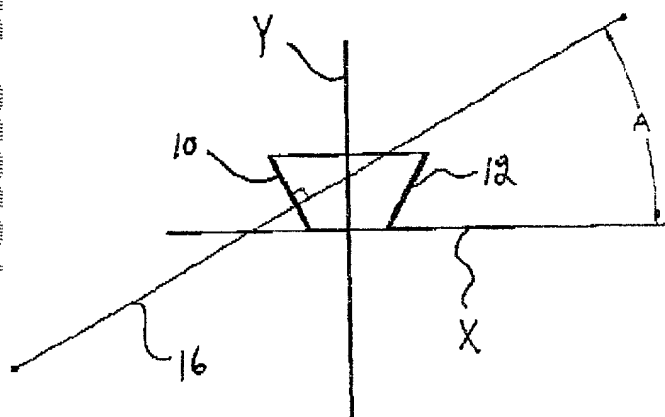
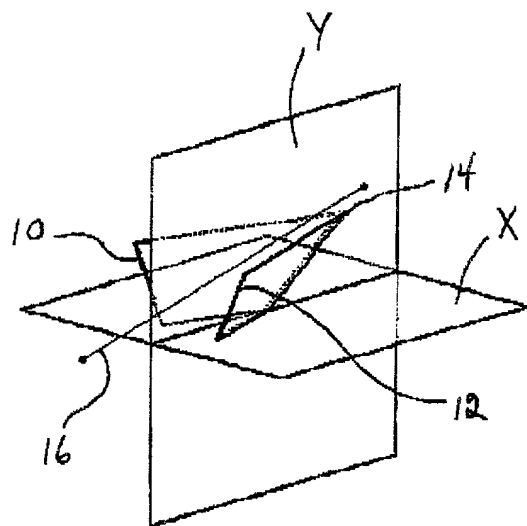
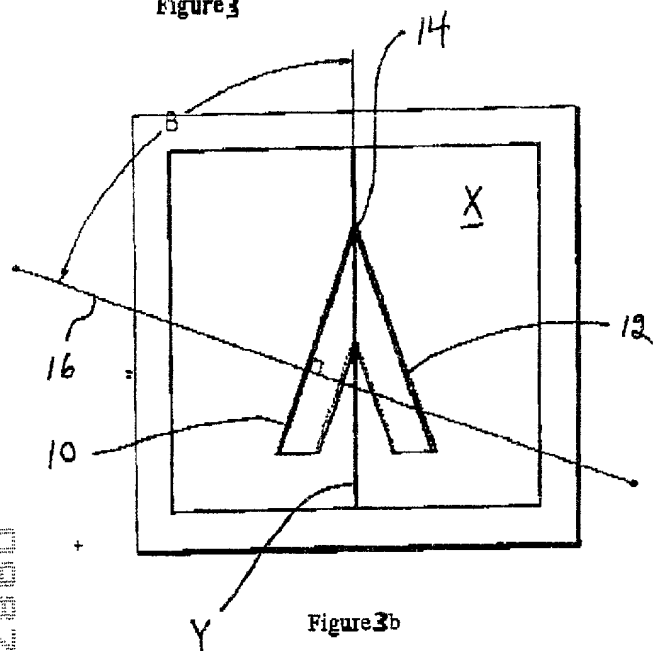


FIG. 2

N_{SAV} : Normal to Surface Adjacent to a Vortex
 N_{MDS} : Normal to Mixing Device Surface
 F : Direction of fluid flow
●: Centroid of mixing device

Figure 3



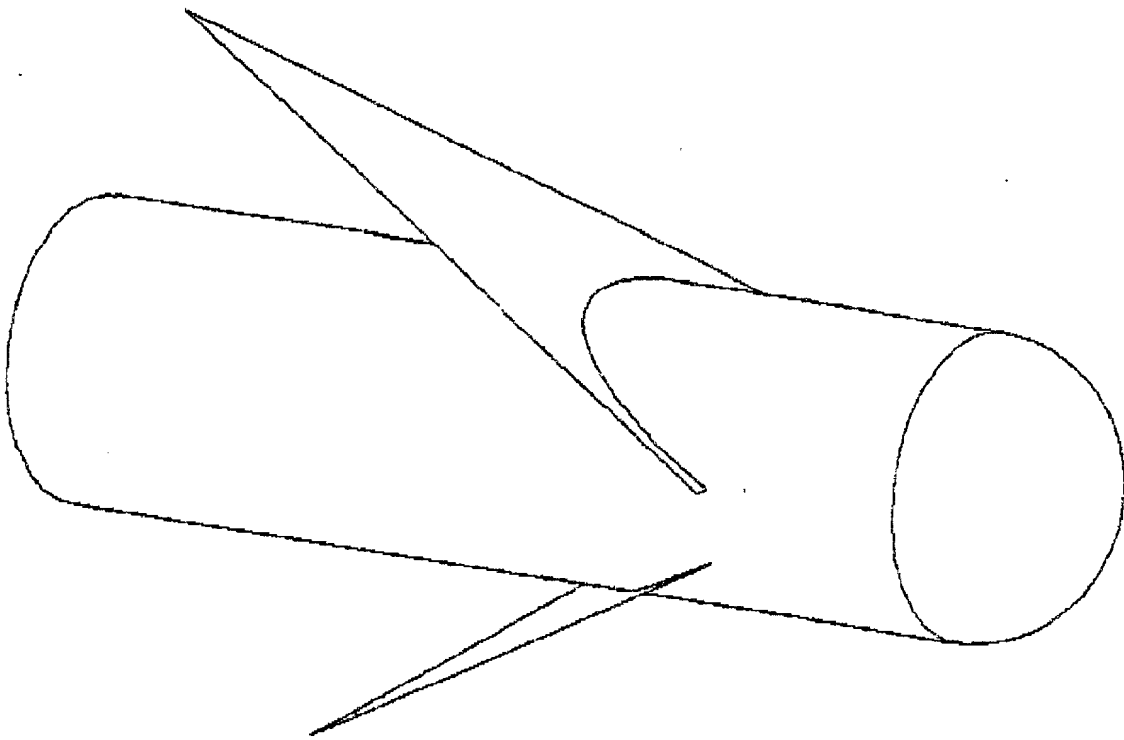


FIG. 4

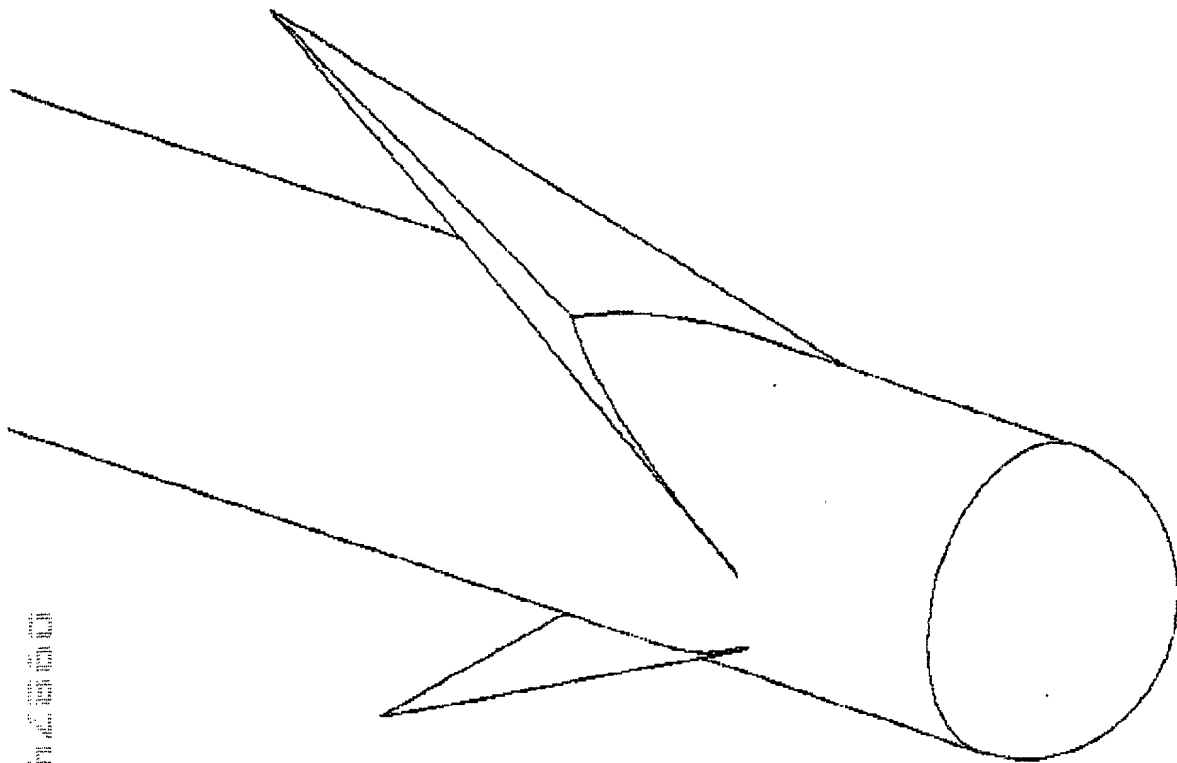


FIG. 5

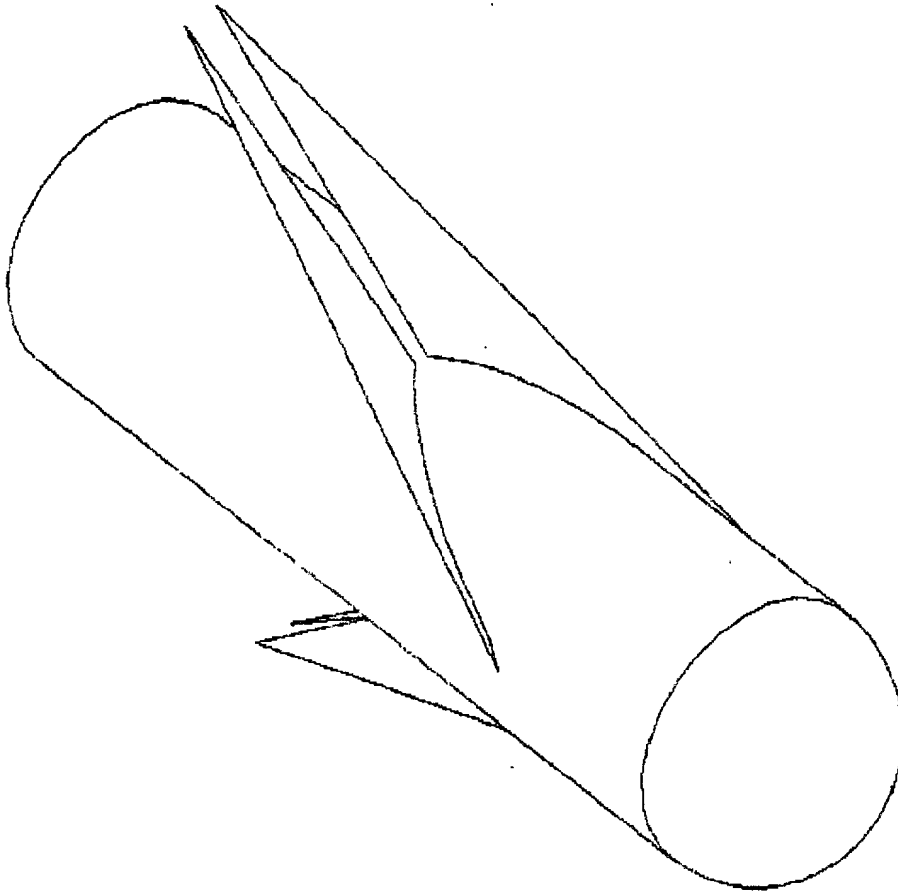


FIG. 6

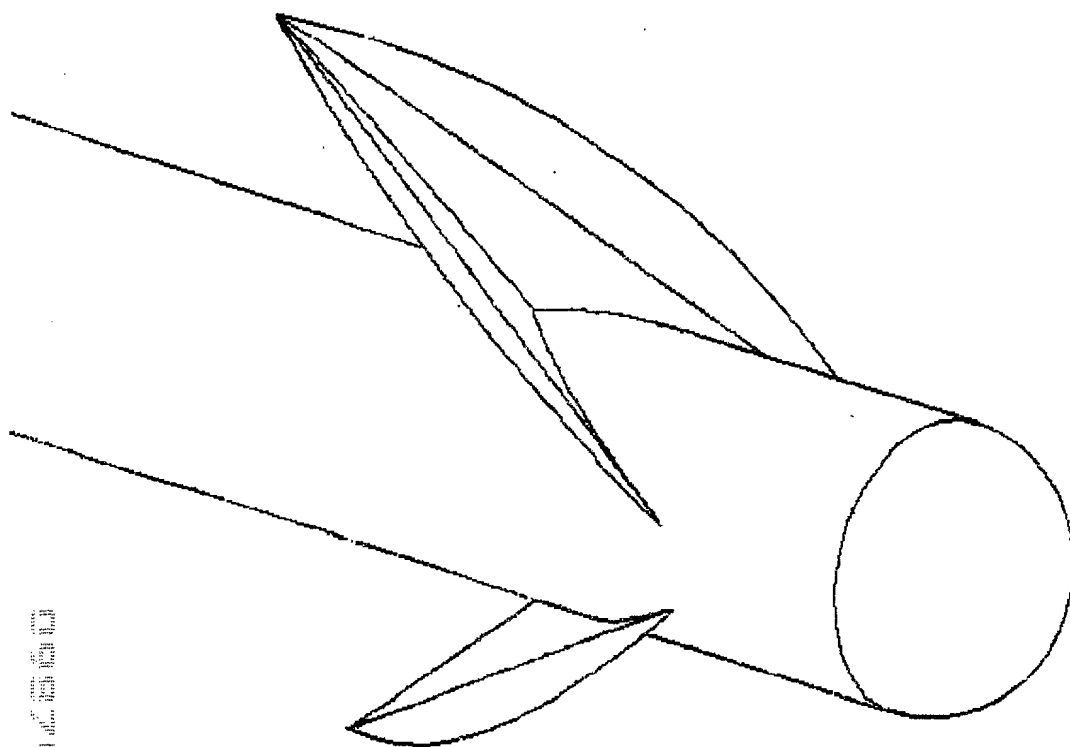


FIG. 7

FIG. 7

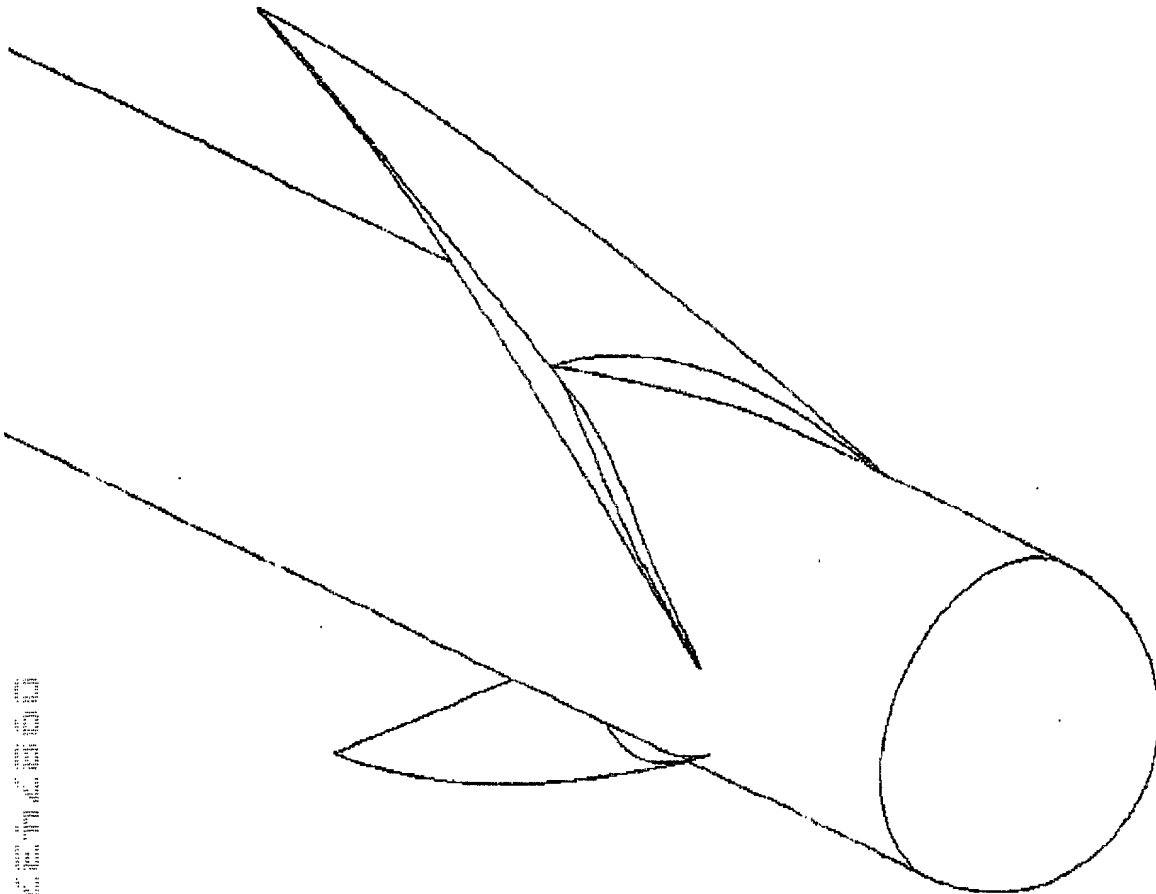


FIG. 8

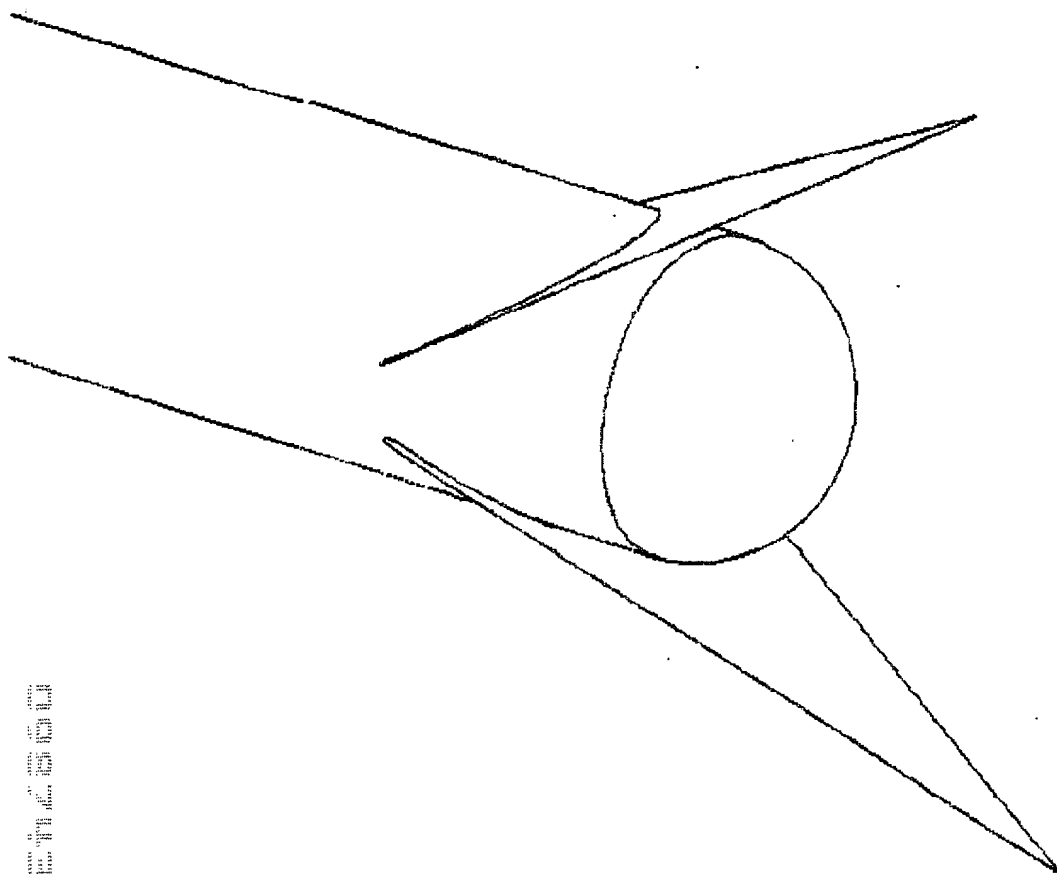


FIG. 9

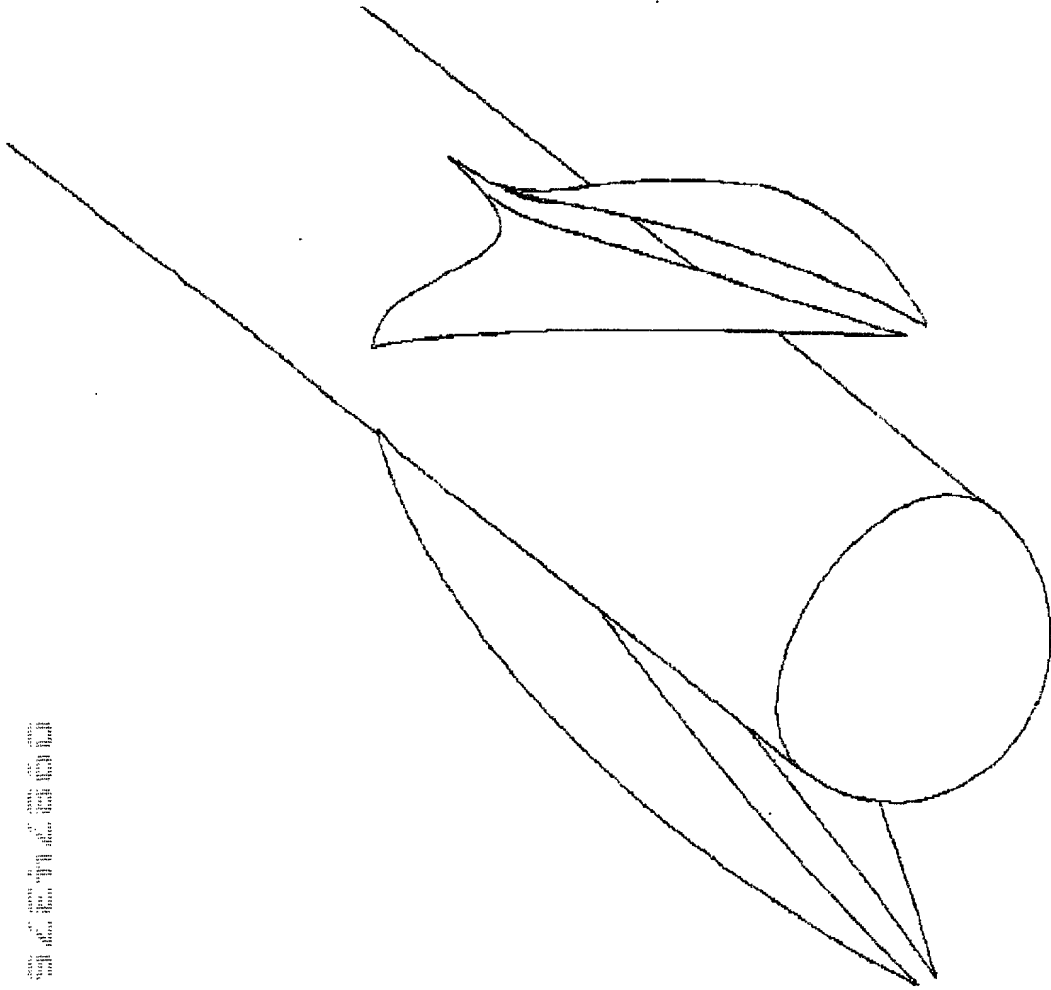


FIG. 10

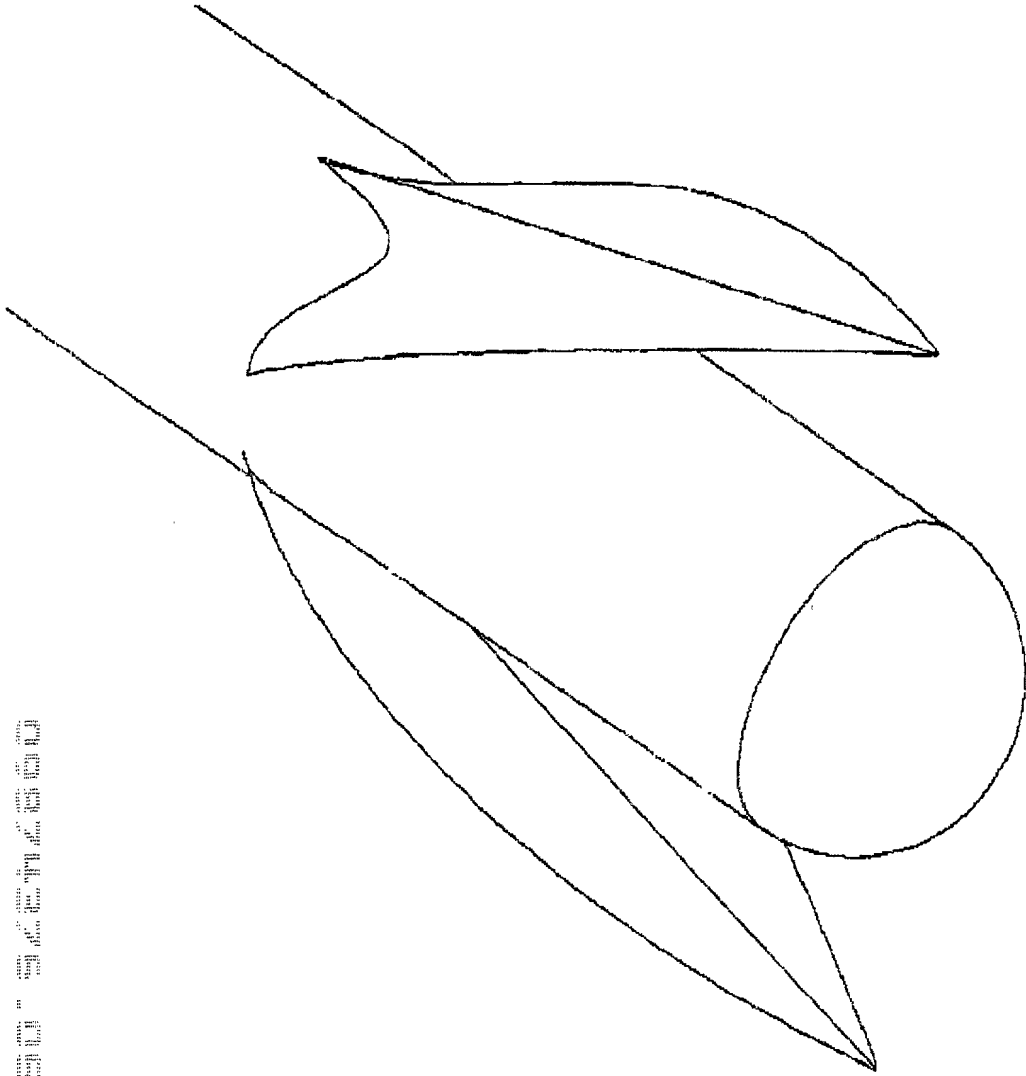


FIG. 11

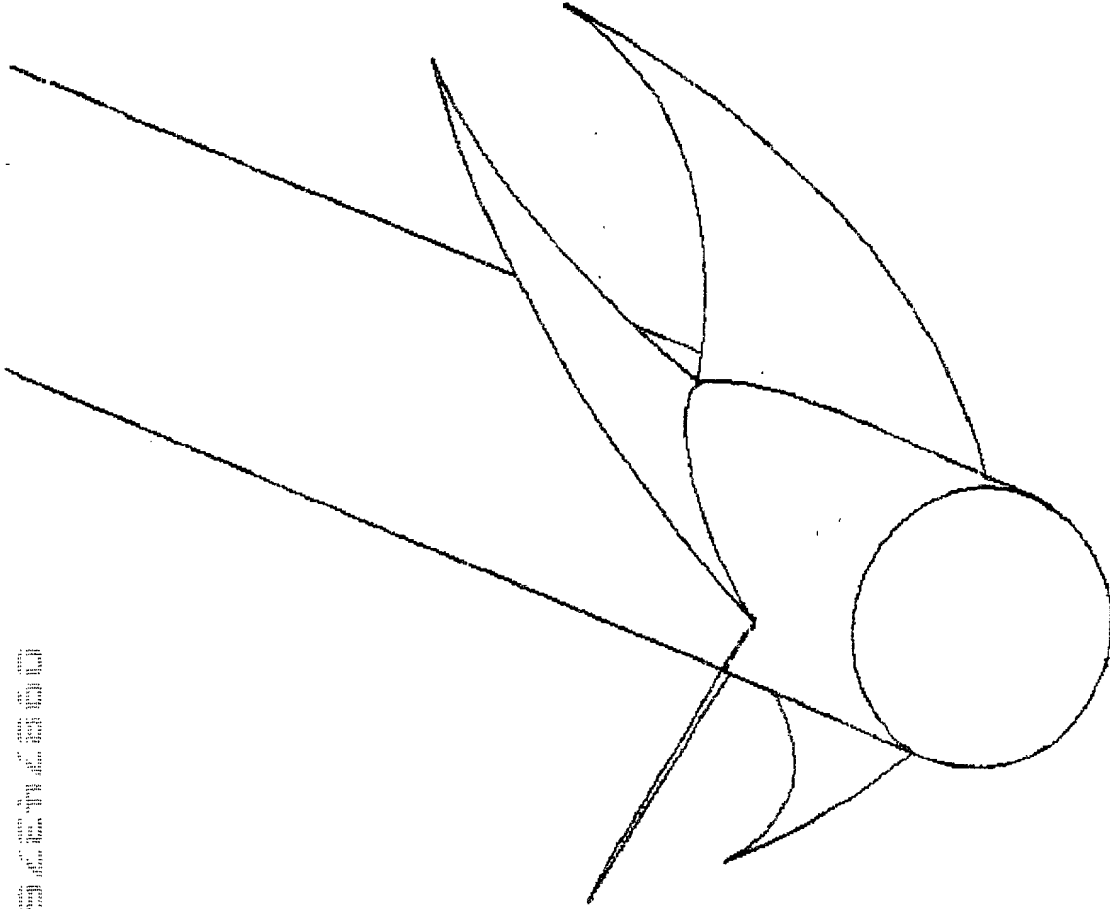


FIG. 12

FIG. 13

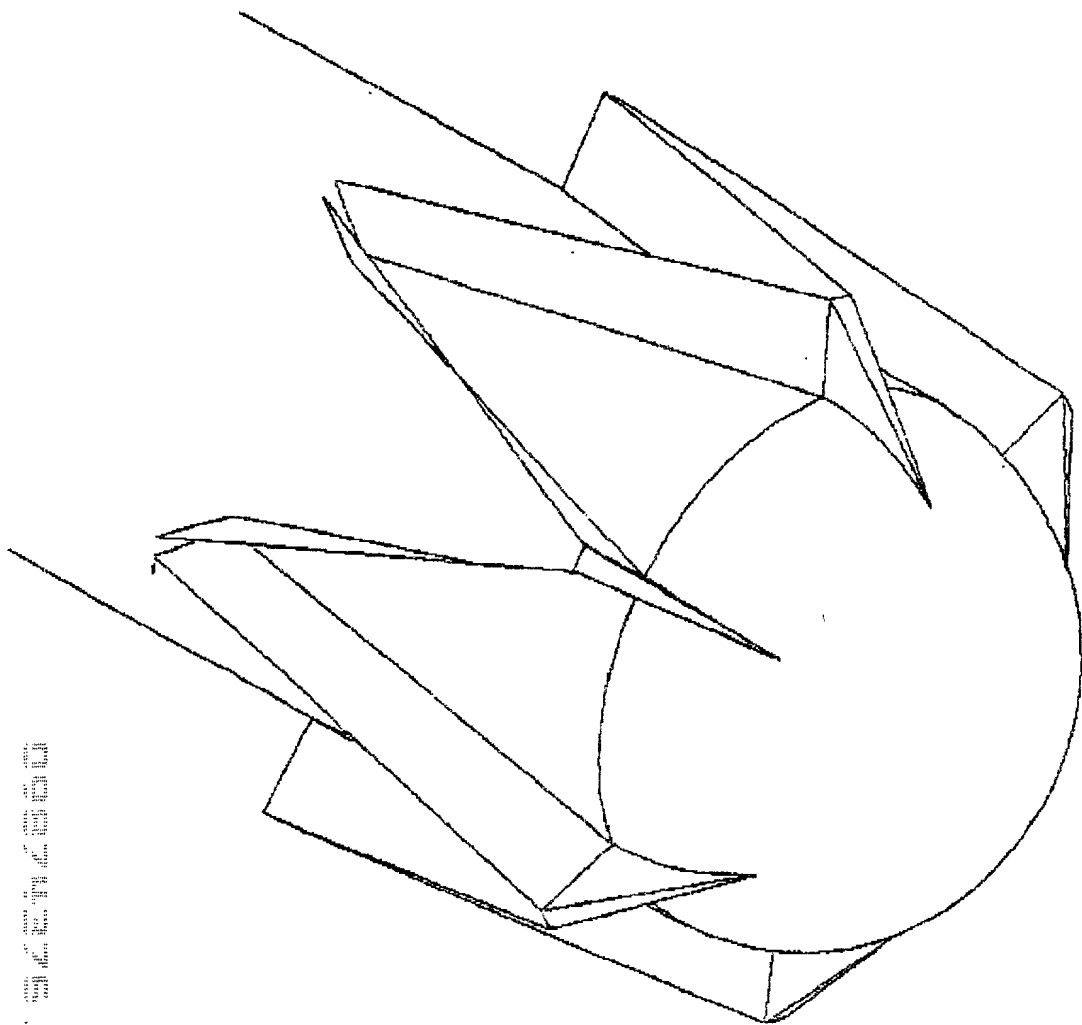


FIG. 13

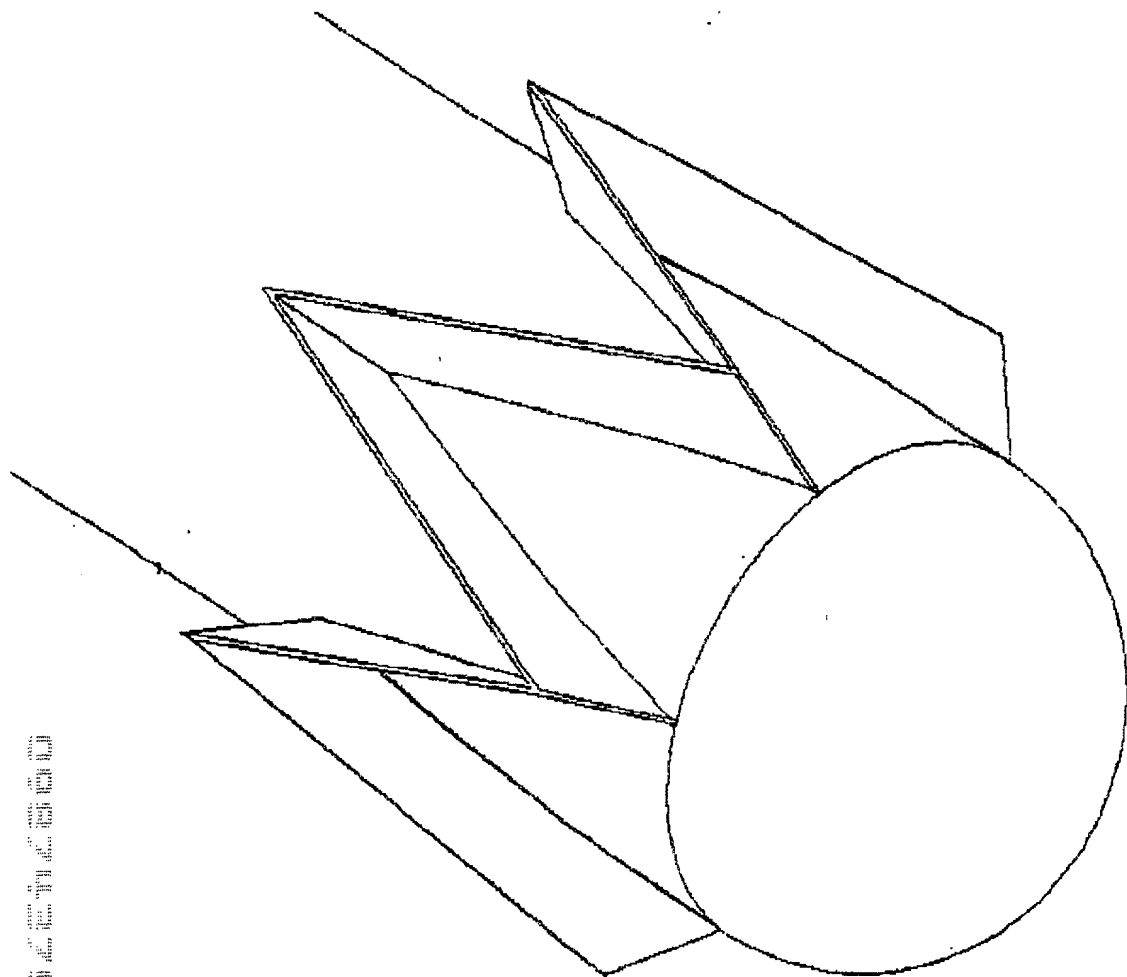


FIG. 14

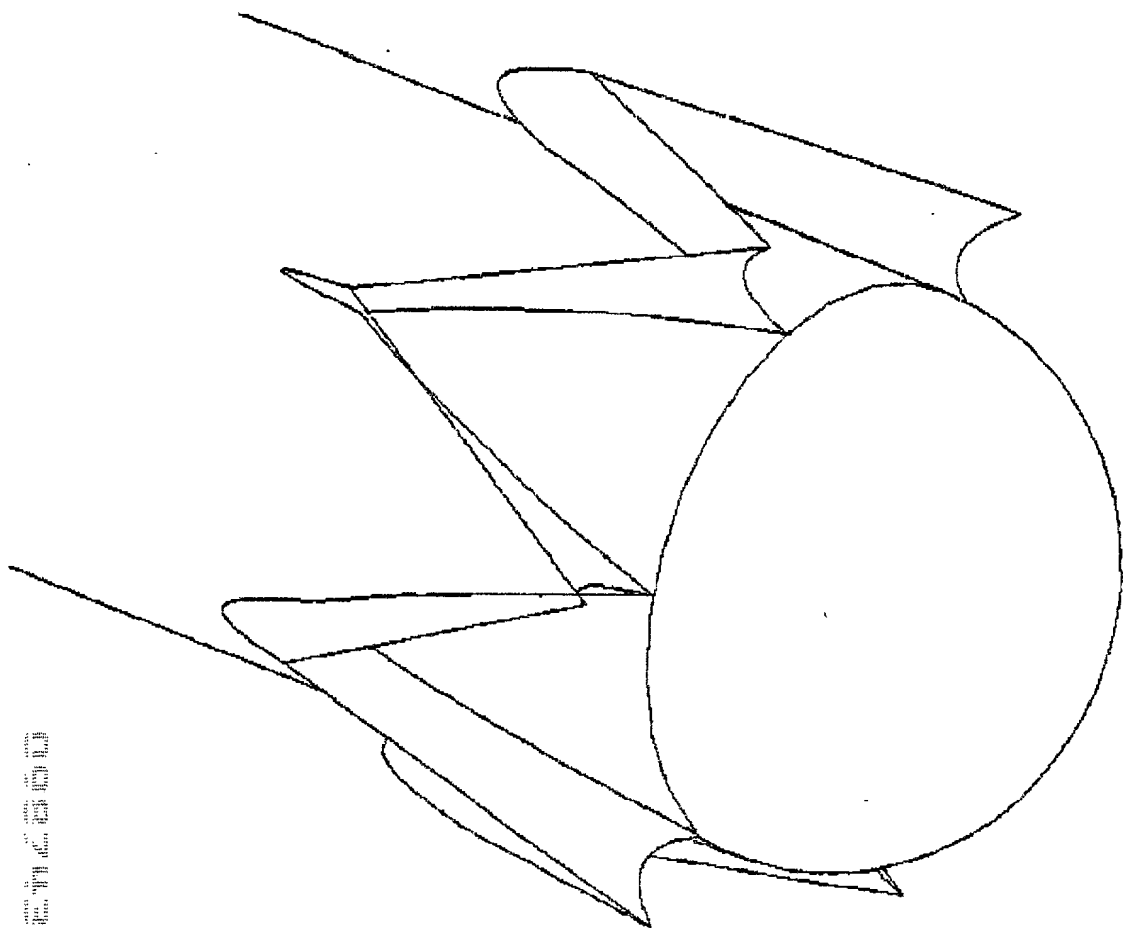


FIG. 15

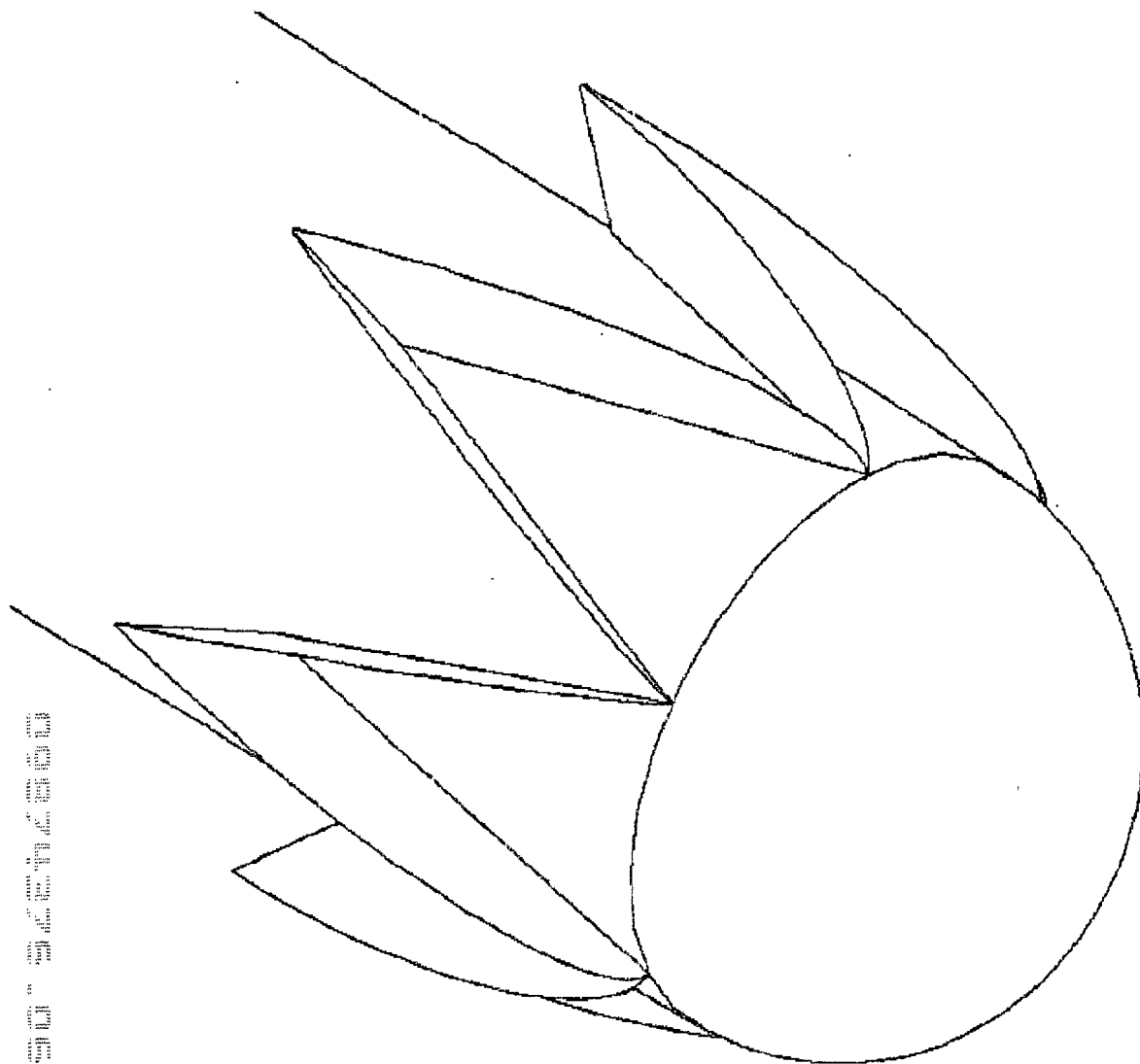


FIG. 16

Figure 17

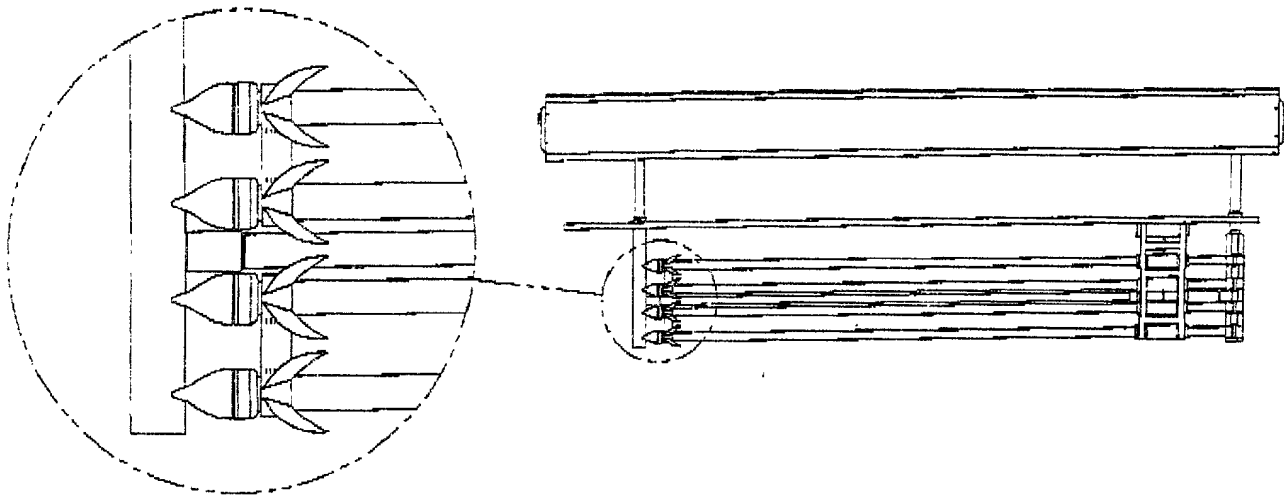


Figure 18a

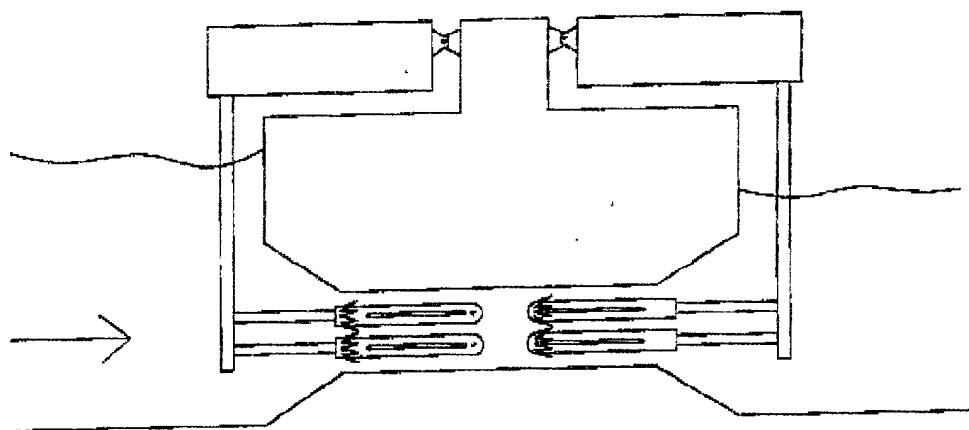


Figure 18b

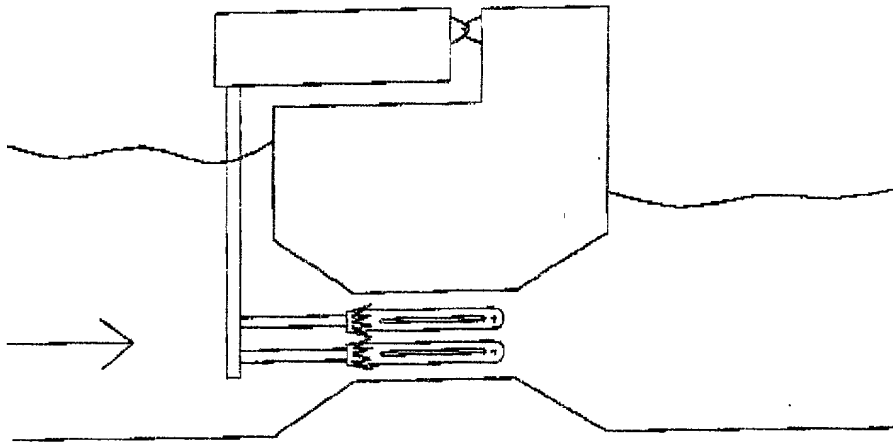


Figure 18c

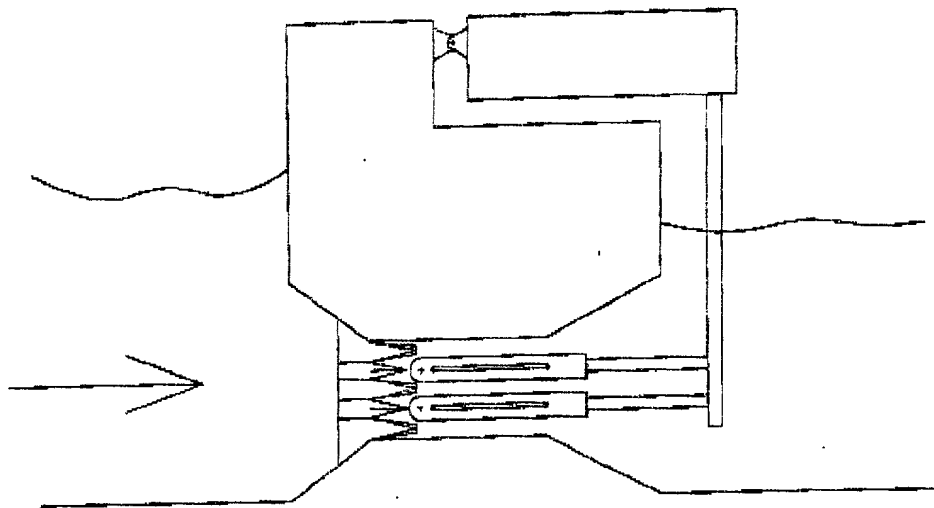


Figure 19

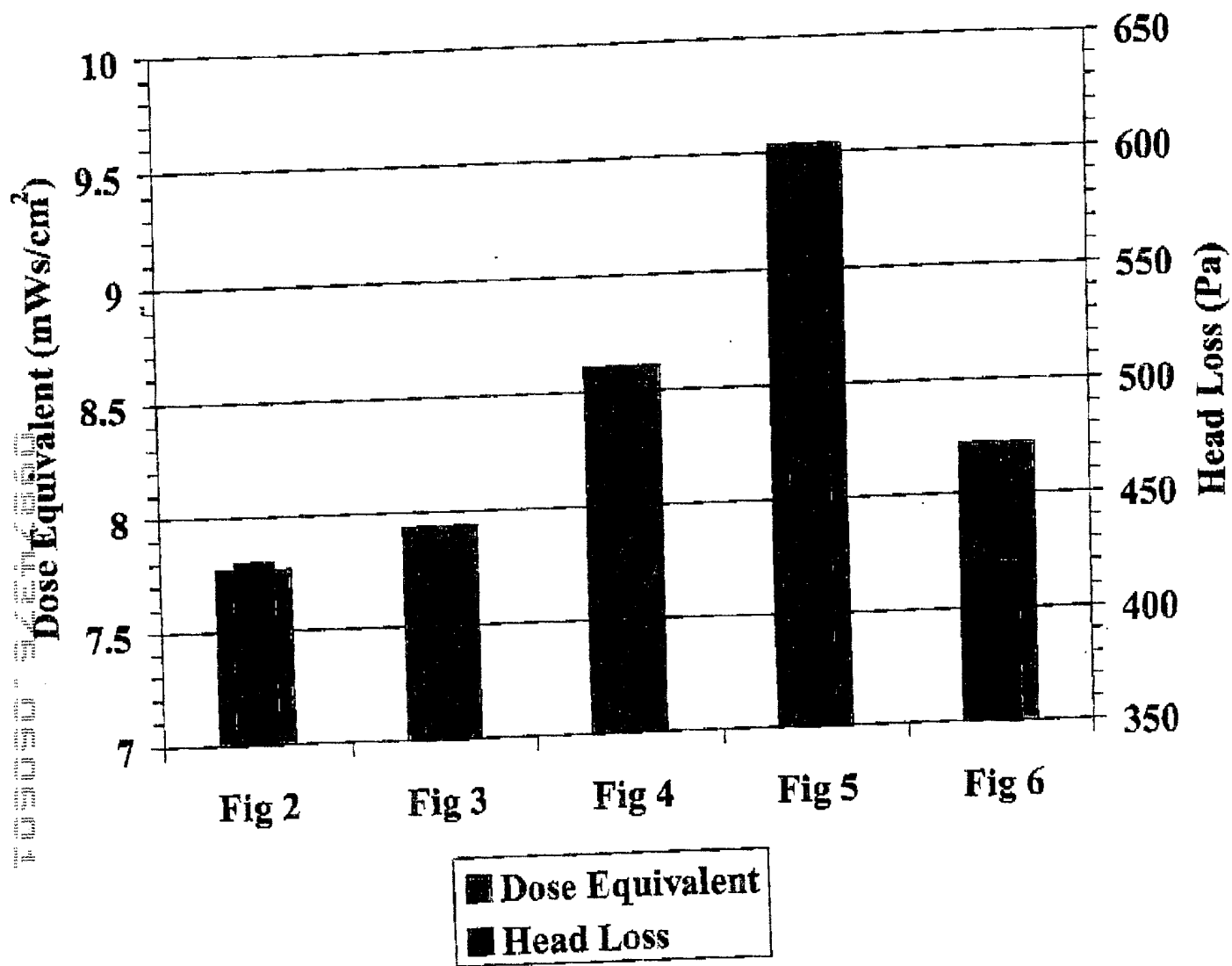


Figure 20

